

291

1.6 HW

Key

p44 27-43 odd 44

27.  $3p+1 \leq 7$  or  $2p-9 \geq 7$

$3p \leq 6$

$2p \geq 16$

$p \leq 2$

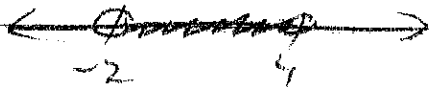
$p \geq 8$



29.  $-11 < -4x+5 < 13$

$-16 < -4x < 8$

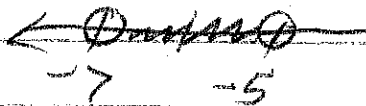
$4 > x > -2$



31.  $-4 < 4f+24 < 4$

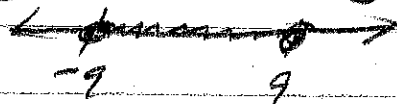
$-28 < 4f < -20$

$-7 < f < -5$



33.  $|g| \leq 9$

$g \leq 9$  AND  $g \geq -9$



35.  $|3k| < 0$

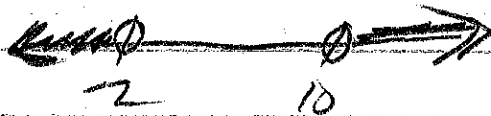
A circled X symbol, indicating that there is no solution to the inequality.

$$37. |b-4| > 6$$

$$b-4 > 6 \quad \text{OR} \quad b-4 < -6$$

$$b > 10$$

$$b < -2$$



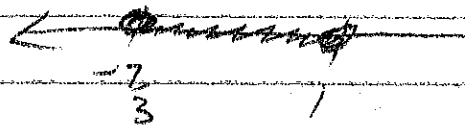
$$38. |3w+2| \leq 5$$

$$3w+2 \leq 5 \quad \text{AND} \quad 3w+2 \geq -5$$

$$w \leq 1$$

$$3w \geq -7$$

$$w \geq -\frac{7}{3}$$



$$41. |n| \geq n$$

$$n \geq n \quad \text{OR} \quad n \leq -n$$

$$0 \geq 0$$

$$2n \leq 0$$

$$R$$

$$n \leq 0$$

$R$

$$43. |2n-7| \leq 0$$

$$2n-7 \leq 0 \quad \text{AND} \quad 2n-7 \geq 0$$

$$n \leq \frac{7}{2}$$

$$n \geq \frac{7}{2}$$

$n = \frac{7}{2}$

$$44 \quad |n-3| < n$$

$$\begin{array}{lcl} n-3 < n & \text{AND} & n-3 > -n \\ -3 < 0 & & -3 > -2n \\ TR & & \frac{3}{2} < n \end{array}$$

